

A. CLASSIFICATION OF SUBJECT MATTER
1PC 7 C07K16/12 C07K16/02 A61K39/40 A61K39/42 A61K35/74 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) C07K A61K IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, BIOSIS, EMBASE, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ' Citation of document, with indication, where appropriate, of the relevant passages Relevant to dalm No. X FULTON R M ET AL: "Prevention of Salmonella enteritidis infection in 7-11. 14-17.21 commercial ducklings by oral chicken egg-derived antibody alone or in combination with problotics" POULTRY SCIENCE, vol. 81, no. 1, January 2002 (2002-01), pages 34-40, XP008038267 ISSN: 0032-5791 the whole document Y 5,12,19 X Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special calegories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention *E* earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed Invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled *O" document referring to an oral disclosure, use, exhibition or in the art. document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 0 2 03 2005 12 November 2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016 Hagenmaier, S

7



0 (0	-V-1 BANKETTA ANGERER DA DE MI MIAIR	PCT/CA2004/001005		
	etion) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	TELLEZ G ET AL: "EVALUATION OF AVIAN-SPECIFIC PROBIOTIC AND SALMONELLA HEIDELBERG-SPECIFIC ANTIBODIES ON CECAL COLONIZATION AND ORGAN INVASION OF SALMONELLA ENTERITIDIS IN BROILERS" JOURNAL OF FOOD PROTECTION, DES MOINES, IO, US, vol. 64, no. 3, 2001, pages 287-291, XP008025680	1-4, 7-11, 14-17,21		
Υ	ISSN: 0362-028X the whole document	5,12,19		
X	WO 94/21284 A (PHARMA PACIFIC PTY LTD; CHANDLER DAVID SPENCER (AU); REED BENJAMIN JO) 29 September 1994 (1994-09-29)	CER (AU); REED BENJÁMIN 6-11.		
Y	the whole document	5,12,19		
X Y	WO 97/20577 A (PHARMA PACIFIC PTY LTD; CHANDLER DAVID SPENCER (AU); REED BENJAMIN JO) 12 June 1997 (1997-06-12) the whole document	1-4, 7-11, 14-18,21 5,12,19		
X	EP 0 955 061 A (MEDIPHARM CZ S R 0) 10 November 1999 (1999-11-10)	1-4, 7-11, 14-18,21		
Y	the whole document	5,12,19		
X	WO 97/37636 A (HAKALEHTO ELIAS ; KURONEN ILPO (FI)) 16 October 1997 (1997-10-16)	1,2,4,8, 9,11,15, 16,18		
Y	page 3, line 20 - line 24 page 5, line 19 - line 22 page 5, line 35 - page 6, line 3	5,12,19		
Y	WO 98/54982 A (GANEDEN BIOTECH INC; FARMER SEAN (US); MIKHAIL ROBERT J (US)) 10 December 1998 (1998-12-10) the whole document	1,2,5,8, 9,12,15, 16,19		
Υ	WO 98/55143 A (CAMA VITALIANO ; UNIV ARIZONA (US); STERLING CHARLES R (US)) 10 December 1998 (1998-12-10) the whole document	1,2,8,9, 15,16		
Y	WO 03/047353 A (MICROPURE TECHNOLOGIES LLC) 12 June 2003 (2003-06-12) the whole document	1,2,8,9, 15,16		
Y	WO 97/06811 A (EWOS AB; BOWMAN DAVID SCOTT (SE); KJELLEBERG STAFFAN (AU); CONWAY PAT) 27 February 1997 (1997-02-27) the whole document	1,2,8,9, 15,16		
	-/			

7



		PCT/CA2004/001005				
	Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT					
ategory "	Citation of document, with indication, where appropriate, Of the resevant passages	Hervani to Claim No.				
alegory °		Relevant to claim No. 1,2,8,9, 15,16				
	·					

7

Information on patent family members

PCT/CA2004/001005

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 9421284	A	29-09-1994	AU AU WO EP JP	673589 B2 6278794 A 9421284 A1 0706400 A1 8509965 T	14-11-1996 11-10-1994 29-09-1994 17-04-1996 22-10-1996
WO 9720577	A	12-06-1997	AU WO	7687296 A 9720577 A1	27-06-1997 12-06-1997
EP 0955061	A	10-11-1999	CZ EP PL SK	9800859 A3 0955061 A1 332146 A1 23799 A3	14-10-1998 10-11-1999 27-09-1999 08-10-1999
WO 9737636	A	16-10-1997	AU WO	2295497 A 9737636 A1	29-10-1997 16-10-1997
WO 9854982	A	10-12-1998	AU AU CA EP JP WO	750136 B2 7719698 A 2292536 A1 0986314 A1 2002502430 T 9854982 A1	11-07-2002 21-12-1998 10-12-1998 22-03-2000 22-01-2002 10-12-1998
WO 9855143	A	10-12-1998	AU WO	7712598 A 9855143 A1	21-12-1998 10-12-1998
WO 03047353	A	12-06-2003	US AU WO	2003104091 A1 2002346642 A1 03047353 A1	05-06-2003 17-06-2003 12-06-2003
WO 9706811	A	27-02-1997	AU CA WO GB JP NO	6706096 A 2228521 A1 9706811 A1 2319728 A 11511966 T 980550 A	12-03-1997 27-02-1997 27-02-1997 03-06-1998 19-10-1999 02-04-1998

hternational application No. PCT/CA2004/001005

Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1. X	Cialms Nos.: because they relate to subject matter not required to be searched by this Authority, namely:			
	Although claims 15-21 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.			
ı	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:			
	,			
	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box III	Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)			
This Inter	mational Searching Authority found multiple inventions in this international application, as follows:			
	see additional sheet .			
1.	As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.			
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.			
з. 🗌	As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:			
4. X	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.: 1,2,8,9,15,16(all partially);4-7,11-14,18-21(all completely)			
Remark	on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.			

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1,2,8,9,15,16 (all partially); 4-7,11-14,18-21 (all completely)

A pharmaceutical composition comprising polyclonal antibodies directed against at least one enteric pathogen and a probiotic, wherein in particular the enteric pathogen is aeromonas hydrophilia; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

2. claims: 1,2,8,9,15,16 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least Bacillus cereus and a problotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

3. claims: 1,2,8,9,15,16 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least Vibrio parahemolyticus, Vibrio cholerae 01, Vibrio cholerae non-01 or Vibrio vulnificus, and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

4. claims: 1,2,8,9,15,16 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least Salmonella enterica and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

5. claims: 1,2,8,9,15,16 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least Salmonella typhi and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

A pharmaceutical composition comprising polyclonal antibodies directed against at least Salmonella paratyphi and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

7. claims: 1,2,8,9,15,16 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least Salmonella entertidis and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

8. claims: 1,2,8,9,15,16 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least Salmonella cholerasuis and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

9. claims: 1,2,8,9,15,16 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least Salmonella typhimurium and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

10. claims: 1,2,8,9,15,16 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least Clostridium difficile and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

11. claims: 1,2,8,9,15,16 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least Clostridium botulinum and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

A pharmaceutical composition comprising polyclonal antibodies directed against at least Clostridium perfringens and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

13. claims: 1,2,8,9,15,16 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least Staphylococcus aureus and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

14. claims: 1,2,8,9,15,16 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least E.coli and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

15. claims: 1,2,8,9,15,16 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least Campylobacter jejuni, Campylobacter coli, Campylobacter lari or Campylobacter fetus, and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

16. claims: 1,2,8,9,15,16 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least Yersinia enterolitica, Yersinia pestis or Yersinia pseudotuberculosis, and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

17. claims: 1,2,8,9,15,16 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least Plesiomonas shigelloides and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

A pharmaceutical composition comprising polyclonal antibodies directed against at least Listeria monocytogenes and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

19. claims: 1,2,8,9,15,16 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least enteric viruses and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

20. claims: 1,2,8,9,15,16 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least rotavirus and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

21. claims: 1,2,8,9,15,16 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least Norwalk-like viruses and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

22. claims: 1,2,8,9,15,16 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least enteric adenoviruses and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

23. claims: 1,2,8,9,15,16 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least coronavirus and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

A pharmaceutical composition comprising polyclonal antibodies directed against at least enteric parasites and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

25. claims: 1,2,8,9,15,16 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least fungi and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

26. claims: 1,2,8,9,15,16 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least Cryptosporidium and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

27. claims: 1,2,8,9,15,16 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least Cyclospora and a probiotic; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

28. claims: 1,3,8,10,15,17 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least one enteric pathogen and a problotic wherein the problotic is a Lactobacilli species; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

29. claims: 1,3,8,10,15,17 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least one enteric pathogen and a probiotic wherein the probiotic is a Bifidobacteria species; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

A pharmaceutical composition comprising polyclonal antibodies directed against at least one enteric pathogen and a probiotic wherein the probiotic is a Saccharomyces species; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

31. claims: 1,3,8,10,15,17 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least one enteric pathogen and a probiotic wherein the probiotic is a Enterococci species; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

32. claims: 1,3,8,10,15,17 (all partially)

A pharmaceutical composition comprising polyclonal antibodies directed against at least one enteric pathogen and a probiotic wherein the probiotic is a Eubacteria; method for preparing such composition; method of treating or preventing a gastrointestinal illness using such composition.

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

☐ BLACK BORDERS
IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
☐ FADED TEXT OR DRAWING
☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
☐ SKEWED/SLANTED IMAGES
\square COLOR OR BLACK AND WHITE PHOTOGRAPHS
☐ GRAY SCALE DOCUMENTS
LINES OR MARKS ON ORIGINAL DOCUMENT
☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
OTHED.

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.